

TECHCROSS NEWS

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Providing Right Solutions For Your Ships

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News 01. BWM Convention finally comes into force on 8 September 2017

Accession by Finland on 8 September 2016 has triggered the entry into force of BWM Convention. This accession brings the combined tonnage of contracting States to the treaty to 35.1441% with 52 contracting Parties meeting the requirements stipulated in BWM Convention; The Convention stipulate that it will enter into force 12 months after ratification by a minimum 30 States, representing 35% of world merchant shipping tonnage.

Since the BWM Convention was adopted in 2004 by the International Maritime Organization (IMO) for the protection of the marine environment, the introduction of the convention has been on hold for ten years. However, with the Finnish accession, it will finally enter into force on 8 September 2017.



After the IMO officially announced the ratification of BWM Conventions, the shipping industry is a little apprehensive about the ratification effect and even concerned about the prospect of unclear USCG Type Approval status for use in the US waters. As Techcross has already worked extensively in preparation for the ratification of BWM Convention, it has a much greater expectation about what it can do from now than ever.

Since the world's first IMO Basic approval awarded in 2006, Techcross has been playing a pioneering role in BWMS market and maintaining a leading position in terms of orders and technical know-how.

Techcross recently emerged as a icon for creative economy as it had been known to take a great advantage of environmental regulations for a remarkably successful business opportunity and It deserved to be funded 11 million US dollars from Korean government to develop next generation of ballast water management systems. In line with this development, Techcross has diversified disinfection technologies into indirect electrolysis, chemical injection and combined one in order to positively cope with particular needs from vessels in operation by offering optimal solutions. Techcross will be regarded as the only company in the world with this enlarged lineup set up. No one may not raise any comments to the expectation that Techcross will stand out as a total solution provider in the field of BWTS retrofit market with various types of systems to be fitted on any specific ships and a good number of well qualified engineers.

Techcross also relocated to new factory in Busan last October 2015 with the world's largest production capacity for over 1,000 ships per year and modernized facility to be prepared with price competitiveness for tremendous demand for the systems down the road.

All things above considered, Techcross is recognized as a role model in terms of how a small startup could become a champion in a new industry and it will keep thriving to lead the industry to the right direction to contribute to getting through the current crisis in Korean shipbuilding industry.

Event Schedule

Public Event

- September 27 ~ 28, 2016
: Prevention First 2016 / CA, USA
- September 27 ~ 29, 2016
: BWMTech North America / Miami, USA
- December 5 ~ 6, 2016
: 12th BWMTech Conference / London, UK

TECHCROSS Event

- December 9, 2016
: Workshop
- December 28, 2016
: Year-end Ceremony

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News 02. TECHCROSS' New Patent for MR Tanker

Techcross received a patent on its own BWMS installation solution for MR tankers with submerged B/P from Korean Intellectual Property Office late August in 2016. The installation solution in the engine room is simpler, safer and more cost-saving compared to the existing on-deck installation.

In case of tankers with submerged pumps, an explosion proof type BWMS is generally installed in a specially designed room on the deck which involves safety concerns and high cost of installation.

The patented installation solution makes it possible to install non-explosion proof type BWMS in the engine room by adding one or two units of ballast pumps for ballasting operation and by using the submerged pumps for de-ballasting operation only. The newly patented solution will be a great benefit to ship owners/operators in terms of safety and BWMS costs. This solution has been applied to 10 MR tanker ships built at HMD and STX shipyards. It is expected that this solution will attract more and more interest in the near future.

Techcross says that "We are pleased that our research for customer's needs have been finally paid off and will make a constant effort to satisfy our customers with more various solutions."



News 03. TECHCROSS Contracts 2 Tankers to Install their BWMSs



Techcross announced that Turkish ship owner chose Techcross' ECS (Electro-Cleen™ System) for their two 158K Suezmax COTs (Crude Oil Tanker). The ballast pump capacity of these two vessels, built in Hyundai Samho Heavy Industries Co., Ltd., are 2000m³/h x 2sets and 250m³/h x 1set. Through this contract, it is expected that Ex-ECS 2000B x 2 sets and ECS 300B x 1set will be delivered by the end of February, 2017. These vessels have similar design with a 158K Tanker of Greek ship owner who had ordered to Hyundai Samho Heavy Industry in 2015. Techcross' sales staff says that the reference for the installation on the 158K Tanker last year plays a determinant role in this decision.

ECS, the ballast water management system of Techcross, treats ballast water based on electrolysis technology. It does not need filtration system so that both installation and maintenance are very convenient. In spite of Maritime Industry's recession, Techcross contracted with ship owner of Hong Kong for two 300K VLCCs in last April. Also, further contracts for four PCTCs and two 50K Tankers from Hyundai Mipo dockyard were signed in June. In case of 50K Tanker, Techcross applied their own installation solution "Engine Room Solution", registered as a patent certificate in the end of August, which can help to save the installation cost and time.

As of September, 2016, Techcross has contracted over 1,000 orders globally and completed 820 deliveries & installations.

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News 04. TECHCROSS inks MOU with MMHE on BWMS

Malaysia Marine and Heavy Engineering SDN, BHD (MMHE), a leading marine service provider in Malaysia, and Techcross, a global leading ballast water management system manufacturer in Korea, have signed a Memorandum of Understanding (MOU) to promote mutual co-operation in BWMS retrofit on September 7th, 2016.

Malaysia Marine and Heavy Engineering Holdings Bergad (MHB) has increased its productivity and services through its strategic partnership with global companies for over 40 years. MMHE is a shipyard which MHB built out in 2012 to enhance its production capacity. The recent ratification of the Ballast Water Management Convention has led MMHE to agree to co-operate with Techcross in order to take a significant share of the retrofit market by effectively providing its customers with better retrofit services.

With this agreement with MMHE in addition to 4 other well-known global repair shipyards, Techcross will be able to gain a foothold in Malaysia as well to respond more quickly to customer needs.

News 05. KR had an Opening Ceremony for BWMS Land-based Test Facilities

On July 22, KR (Korean Register) announced that it had an opening ceremony to celebrate the completion of additional land-based test facilities for BWMS in KOMERI (Korea Marine Equipment Research Institute) located in Geoje, Gyeongsangnam-do. The test facility became the largest capacity for BWMS testing in the world through building up three facilities more. It now offers a total testing capacity for Max. TRC 500 m³/h of BWMS together with 4 testing slots.

Over 150 people including KR, KOMERI and the consortium partners celebrated the completion of the new land-based test facilities. Kyu-won

Park, CEO of Techcross and Seong-Tae Kim, the chairman of KABWMS (Korea Association of Ballast Water Management System) / executive director of Techcross were also invited to be a great of honor at the ribbon cutting ceremony and to deliver congratulatory message. After ceremony, they attended at BWMS meeting hosted by Ministry of Maritime Affairs and Fisheries to discuss about both the ratification of BWM Convention and request for the achievement of USCG type approval.

Many BWMS manufacturers welcomed this news. As there are only 5 test laboratories all over the world, many manufacturers are waiting their turns for a long time. However, thanks to KR' expanded test facility, BWMS manufacturers believe that it helps to solve the bottleneck phenomenon.

As Techcross made a contract with KR for USCG TEST related to ECS, Techcross ECS is in process of being tested at the test facility of KOMERI even during the ceremony. All the systems of Techcross are in process of being tested to achieve the USCG type approvals at KR and DNV respectively and look forward to being completed in the first half of next year.

As KR was designated as IL (Independent Laboratory) by USCG secondly in the world last year, it is being recognized around the world for its superior technology and quality.

The new facility will be approved by the USCG in September and at the same time will become fully operational for land-based testing for USCG type approval as well as type approval testing for other Administrations under the IMO's G8 guidelines.

